KENWOOD

DRV-A100

Dashboard Camera

INSTRUCTION MANUAL

JVCKENWOOD Corporation

- Updated information (the latest Instruction Manual, etc.) is available from <https://www.kenwood.com/cs/ce/>.

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100-V1.3.C.A-EN

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Before Use

- The screen images and operation examples in this document were created for explaining the operating procedures.
- There may be screen images that differ from the actual screens or examples of operations not actually performed.

Disclaimer

- Please note that JVCKENWOOD shall not be responsible for any damages suffered by the customer or a third party as a result of incorrectly using this product, a failure during use of this product, or other trouble, or due to the use of this product, unless such liability is acknowledged by law.

Copyrights

- Recorded video, image, and audio content cannot be used for other than personal enjoyment without the consent of the copyright holder as specified in the Copyright Act.
- Please note that the recording of an event such as a show, performance, or exhibition may be restricted even when doing so for personal enjoyment.

Dashboard Camera Function Guide

With new technology readily available, JVCKENWOOD has developed an easy to use dashboard camera for everyday use. The device allows its user to record files in1 / 3 / 5minute lengths. These files are easy to download to your desktop or laptop.
In most instances, the video files are easily played on your mobile device.
While most cameras traditionally use the entire capacity of the SD card until it is removed, the device automatically deletes the oldest file to create space for the new video.

Dashboard camera offers three modes:

1. Video Mode: Video mode will set to default when the device is active.
2. Photo Mode: The device setting takes still photographs.
3. Playback Mode: Users can view all previously recorded videos and photos taken.

FEATURES:
Automatic Start/Stop Technology:
Maintain full focus on the road! The vehicles ignition will let the device turn on while connected to your vehicles 12 V outlet or cigarette lighter socket. When the vehicle is turned off, the device will automatically shut down, preserving the device power for those moments you are not connected to permanent power.

The device lets users adjust camera settings to get the perfect shot. For a great photo every time, here are a few tips from the designers:

1. Reduce the amount of sky in the picture. By adjusting the device towards the road, the automatic exposure compensation will be focused on the road and not the light from the sky.
2. Position the device in the center of the dash. If you place the device behind the rearview mirror, you will avoid all distractions from the road.
3. Remove any objects that will obstruct your shot such as the protective lens cover. Clear vision will allow you to record everything in one shot.

Precautions for Use

Precautions and notices

Warning! Do not operate the device while driving. Using this product does not change the requirement for a driver to take full responsibility for his or her behavior. This responsibility includes observing all traffic rules and regulations in order to avoid accidents, personal injury or property damage.

- For your own safety, do not operate the controls of the product while driving.
- A window mount is needed when using the device in a car. Make sure that you place the device in an appropriate place, so as not to obstruct the driver's view or deployment of airbags.
- Make sure that no object is blocking the camera lens and no reflective material is placed near the lens. Please keep the lens clean.
- If the car's windscreen is tinted with a coating, this may impact the recording quality.
- Connect the charger to a proper power source. The voltage requirements are found on the product case and/or packaging.
- Do not use the charger if the cord becomes damaged.
- Do not attempt to service the unit. There are no serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.

Caring for your device

Taking good care of your device will ensure trouble-free operation and reduce the risk of damage.

- Keep your device away from excessive moisture and extreme temperatures.
- Avoid exposing your device to direct sunlight or strong ultraviolet light for extended periods of time.
- Do not place anything on top of your device or drop objects on your device.
- Do not drop your device or subject it to severe shock.
- Do not subject your device to sudden and severe temperature changes. This could cause moisture condensation inside the unit, which could damage your device. In the event of moisture condensation, allow the device to dry out completely before use.
- The screen surface can easily be scratched. Avoid touching it with sharp objects. Nonadhesive generic screen protectors designed specifically for use on portable devices with LCD panels may be used to help protect the screen from minor scratches.
- Never clean your device with the power on. Use a soft, lint-free cloth to wipe the screen and the exterior of your device.
- Do not use paper towels to clean the screen.
- Never attempt to disassemble, repair or make any modifications to your device. Disassembly, modification or any attempt at repair could cause damage to your device and even bodily injury or property damage and will void any warranty.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as your device, its parts or accessories.
- To discourage theft, do not leave the device and accessories in plain view in an unattended vehicle.
- Overheating may damage the device.

Precautions for installation

- Install the device in a position where it will not block the front view of the driver (position where hidden by the rear-view mirror).
- Install the device so that it is within the wiping range of the wiper.
- Install the device in a position where it will not interfere with the movement of the rear-view mirror.
- Take care not to install the device over the vehicle inspection sticker or other sticker.
- Take care not to install the device where it will interfere with driving or airbag operation.
- When installing the device in a vehicle equipped with a driving support system, check the instruction manual of the vehicle and then select an installation position that will not interfere with the driving support system.
- If the device is installed incorrectly, event recording or parked recording may not work correctly.
- Refer to "Installation and Connection" for the loosening of fixing knob, installation orientation, installation angle, and other information and then install the device correctly.
- Do not install the device near a digital terrestrial television antenna or an electrical component.
- Doing so may reduce television receiver sensitivity or cause flickering and noise.
- When selecting a position for the suction mount, make sure it's on a glass surface that is smooth and free of paint.
- Before mounting, clean the area with a dry/clean cloth and add a small amount of moisture to the windshield. This allows a stronger bond to form between the glass and the suction mount.
- When fixing the device with the adhesive mount, use a commercially available cleaning cloth or the like to wipe off all dirt and grease on the mounting surface. If the device is re-affixed or mounted using, for example, general-purpose double-sided tape, the adhesion strength may weaken and cause the device to fall.
- After mounting the device, leave it for 24 hours before use to enable the mounting strength of the adhesive mount to improve. Failing to do so may result in the adhesion of the adhesive mount becoming weak and the device falling.
- Fix the cord in place with tape or the like so that it does not interfere with driving.

Precautions for use

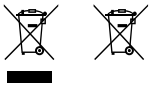
- Do not block the camera lens, get dirt on it, or place a reflective object near it.
- When LED traffic lights are recorded, video in which they appear to be flickering or flashing may be recorded. JVCKENWOOD assumes no responsibility with regard to the distinguishing or recording of traffic lights.
  If coating is used on the windshield of the vehicle, recording quality may be affected.
- There is no guarantee that the device can record video in all conditions.

Cleaning the device

- When the device is dirty, wipe it with a dry silicone cloth or other soft cloth. If the device is very dirty, remove the dirt with a cloth with neutral cleaner on it then wipe off the cleaner. Wiping the device with a hard cloth or using a volatile substance such as thinner or alcohol may cause scratches, deformation, deterioration or other damage.
- When the lens is dirty, gently wipe it with a soft cloth dampened with water. Rubbing the lens strongly with a dry cloth may cause scratches.

If you notice a problem with the device

If you notice a problem with the device, first refer to "Troubleshooting" (P. 38) and check whether there is a way to resolve the problem.
If the device does not return to normal after the reset, turn off the power of the device and then contact your dealer or nearest JVCKENWOOD service center.



Information on Disposal of Old Electrical and Electronic Equipment and Batteries (applicable for countries that have adopted separate waste collection systems)
Products and batteries with the symbol (crossed-out wheeled bin) cannot be disposed of as household waste.
Old electrical and electronic equipment and batteries should be recycled at a facility capable of handling these items and their waste by products.
Contact your local authority for details in locating a recycle facility nearest to you.
Proper recycling and waste disposal will help conserve resources while preventing detrimental effects on our health and the environment.

CE

Declaration of Conformity with regard to the EMC Directive 2014/30/EU
Declaration of Conformity with regard to the RoHS Directive 2011/65/EU
Manufacturer:
JVCKENWOOD Corporation
3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa 221-0022, JAPAN
EU Representative:
JVCKENWOOD Europe B.V.
Amsterdamseweg 37, 1422 AC UITHOORN, THE NETHERLANDS

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Déclaration de conformité se rapportant à la directive RoHS 2011/65/EU
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EU-Vertreter:
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RoHS Direktifi 2011/65/EU için Uyum Beyanı
Üretici:
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3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa 221-0022, JAPONYA
AB Temsilcisi:
JVCKENWOOD Europe B.V.
Amsterdamseweg 37, 1422 AC UITHOORN, HOLLANDA

Дата изготовления (месяц/год) находится на этикетке устройства.

В соответствии с Законом Российской Федерации “О защите прав потребителей” срок службы (годности) данного товара, “по истечении которого он может представлять опасность для жизни, здоровья потребителя, причинять вред его имуществу или окружающей среде” составляет семь (7) лет со дня производства. Этот срок является временем, в течение которого потребитель данного товара может безопасно им пользоваться при условии соблюдения инструкции по эксплуатации данного товара, проводя необходимое обслуживание, включающее замену расходных материалов и/или соответствующее ремонтное обеспечение в специализированном сервисном центре.

Дополнительные косметические материалы к данному товару, поставляемые вместе с ним, могут храниться в течение двух (2) лет со дня его производства.

Срок службы (годности), кроме срока хранения дополнительных косметических материалов, упомянутых в предыдущих двух пунктах, не затрагивает никаких других прав потребителя, в частности, гарантийного свидетельства KENWOOD, которое он может получить в соответствии с законом о правах потребителя или других законов, связанных с ним.

Условия хранения:
Температура: от –20°C до +60°C
Влажность: от 5% до 95%

Информация о продукции

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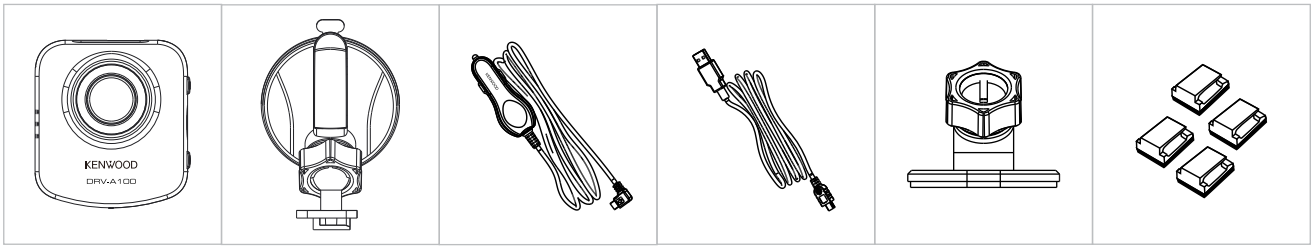
3-12, Морийячо, Канагава-ку, Йокохама-ши, Канагава 221-0022, Япония

Видеорегистратор		
Модели: DRV-A100		
Документ о соответствии:	RU Д-JP.PA01.B.00222/19	ЕАЭС N RU Д-JP.PA01.B.30172/20
Дата выдачи:	17.12.2019	31.03.2020
Действителен до:	16.12.2024	30.03.2025
Соответствует требованиям нормативных документов:	ТР ТС 020/2011 «Электромагнитная совместимость технических средств»	ТР ЕАЕС 037/2016 «Об ограничении применения опасных веществ в изделиях электротехники и радиоэлектроники»
Завод-изготовитель:	Cansonic Company Limited 3/F, Building 1, Guanlan Industrial Park, Grain Group,299 Guanping Road, Dafu Community, Guanlan South, Longhua New District, Shenzhen, China(Китай)	

Accessories

Before you get started, check you have everything below.



Dashboard Camera (with 16GB microSD card)	Suction mount	Cigar Lighter Adapter Cable	USB Cable	Adhesive Mount	Cable Clips

* Product appearance may differ slightly to that shown above.

Key Features

- 2” LCD Color Screen

We developed a screen that perfectly fits your camera, without any loss of resolution. This design allows you to use the playback feature, instantly letting you view the shot you just captured.

- G sensor/File Protection

The dashboard camera's built-in sensor detects an outside force, forcing the device to save what has been just recorded. The file can also be manually saved. By pressing our easy to access button around the screen, you are able to save an individual file.

- Automatic Start/Stop Tech

The dashboard camera comes with built-in sensors that automatically turn the device on and off with the vehicle.

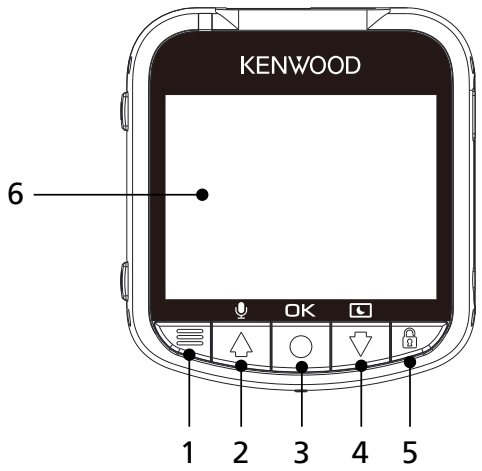
- Built-In Microphone & Speaker

A built-in microphone and speaker come standard. The feature also works with the device’s playback feature.

- Parking Mode

The dashboard camera has a parking mode, but a unique feature enables the device to automatically record 30 seconds of video if there is any physical movement of the vehicle. This feature requires hardwire kit CA-DR1030(optional accessory) to permanent power.

Parts Name and Functions



1. **Menu Button**
   Press this button to open the menu of the current mode. Press this button twice to enter the general setting menu.

2. **Up/Mute Button**
   Up
   Navigate up within menus or go to the previous file in playback mode.
   Mute
   Turn on or off the audio recording function while in video mode.

3. **Record/OK Button**
   Record
   In Video mode, press to start or stop recording.
   In Photo mode, press to take a photo.
   OK
   The confirm button used to select options in menus.

4. **Down/Screen Off Button**
   Down
   Navigate down within menus or go to the next file in playback mode.
   Screen Off
   Turn on/off the LCD screen.

5. **File Protect Button**
   Simply press the button to protect the current video file from overwriting.
   Note:
   - If the button is pressed within the first third of a video clip, the previous clip will also be protected.
   - If the button is pressed within the final third of a video clip, the next clip will also be protected (if recording continues).

6. **Screen**
   The device is equipped with a standard 2” LCD color screen to let you view.

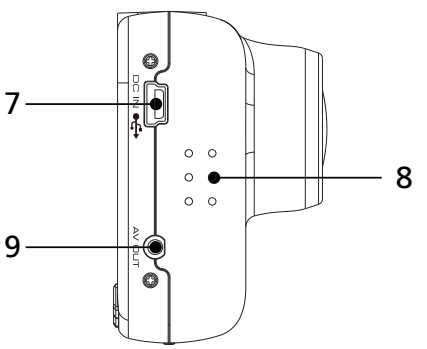
7. **DC-IN/Data transfer Port**
   By connecting the device with the supplied cigar lighter adapter cable you are able to charge the device. This will also be utilized to let you connect the USB cord to your computer. You can either connect the cigar lighter adapter cable with the device or magnetic connector.

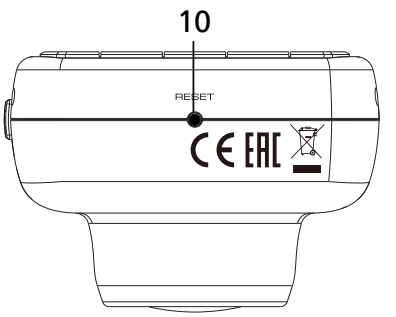
8. **Speaker**
   System sound and recorded footage sound.

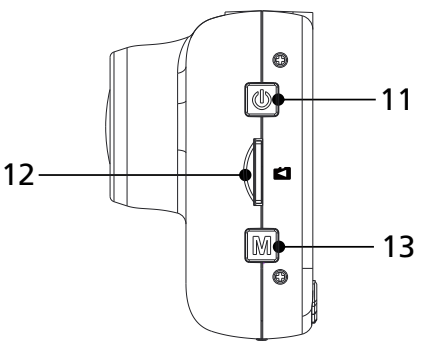
9. **AV Output**
   The device can be connected to other screen by using the AV cable. (commercially available)

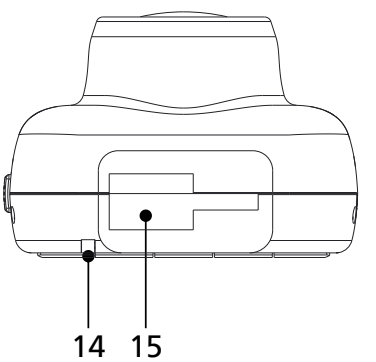
10. **Reset Button**
    On the rare occasions the device has a problem, use the reset button to shut down the device. Simply press the reset until the device turns off and the device will automatically turn on.

11. **Power Button**
    Press the button to turn the device on.
    Press and hold the button for 3 seconds to turn the device off.









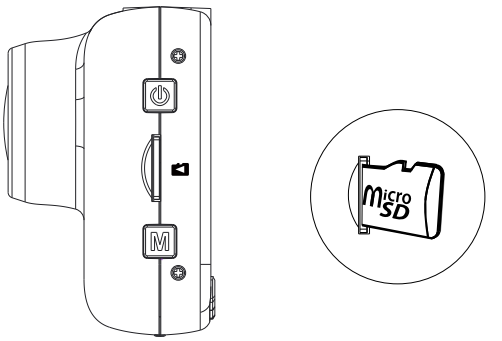
12. microSD Card Slot

Insert your microSD card here. Push your memory card into the slot until you hear a click.

(microSD card is inserted into microSD Card Slot at the factory shipment condition)

Insert Your microSD Card Into The Device

The device is designed to allow a standard microSD card to record your footage. Before installing, make sure the gold end of the card is facing the LCD screen. Once it's aligned with the slot, push the card in and listen for the CLICK that will confirm it is secure.



TIP:

- If you cannot hear the CLICK, take a small coin by the edge and push on the outside end of the card until the sound is made.
- Remember: DO NOT REMOVE OR INSERT THE MEMORY CARD WHILE THE DEVICE IS TURNED ON.
- The device will power off automatically when you insert or remove the SD card.

13. Mode Button

This button allows you to navigate between video, photo and playback modes.

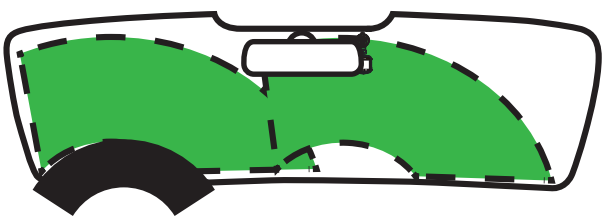
14. **Status LED Indicator**
Red: Power On **Red (Flashing):** Recording **Blue:** Charging

15. **Mounting Point**
Attach the mount to the mounting point.

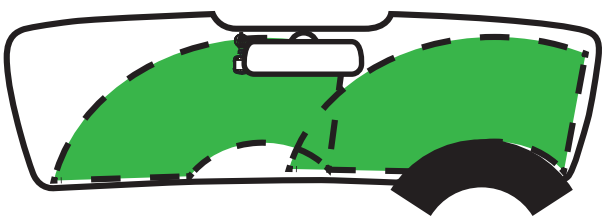
Installation and Connection

Recommended installation position

- Install the device in a position where it will not block the front view of the driver (position where hidden by the rear-view mirror).
- Install the device so that it is within the wiping range of the wiper.
- Mounting the device to the center of the windshield behind the rear-view mirror will facilitate optimal video recording.



Left-hand Drive



Right-hand Drive

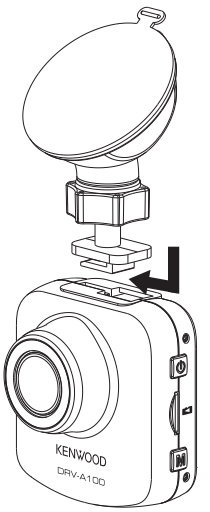
⚠ **Caution**
When passing the power cord through the front pillar or another part, observe the points below when performing the wiring work.

- Wire the power cord farther forward or farther rearward than the airbag so that it does not interfere with the airbag.
- In the case of a vehicle in which the front pillar cover is fixed in place with special clips or the like, the clips may need to be replaced after you remove the front pillar cover. For how to remove the front pillar cover, the availability of replacement parts and other information, contact the vehicle dealer.
- Fix the power cord in place with commercially available soft tape or the like so that it does not interfere with driving.

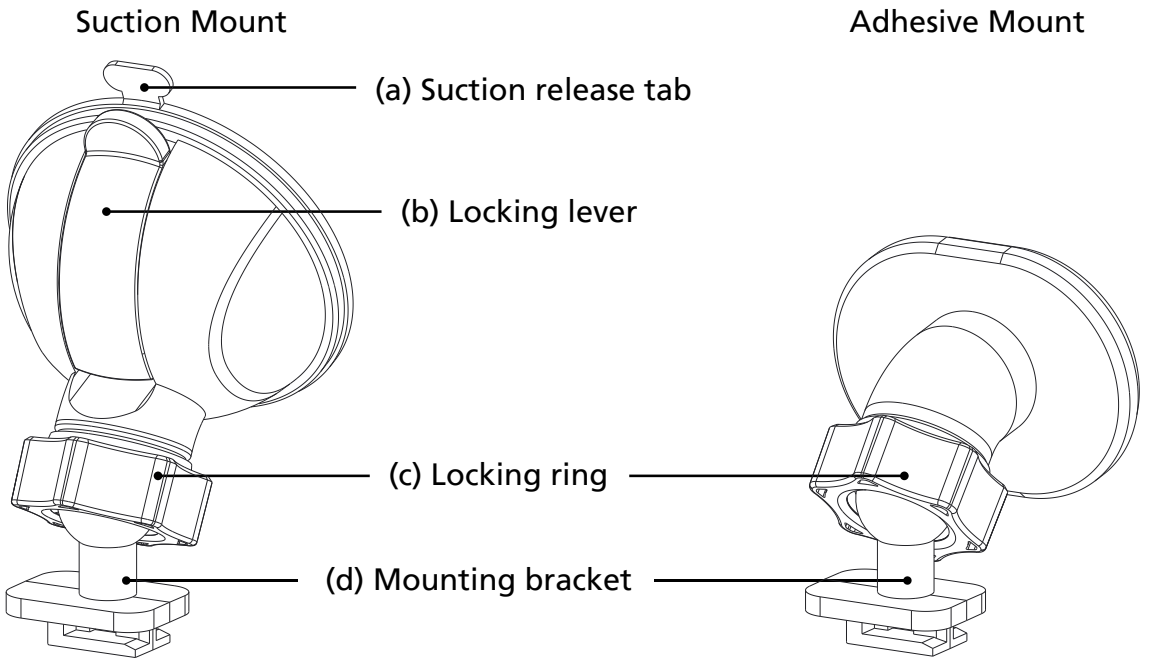
1.

1.1 CONNECT THE DEVICE TO THE SUCTION MOUNT

Attach the suction mount onto the mounting point on the device.
Make sure you align the **(d) mounting bracket** within the mounting point for proper installation.



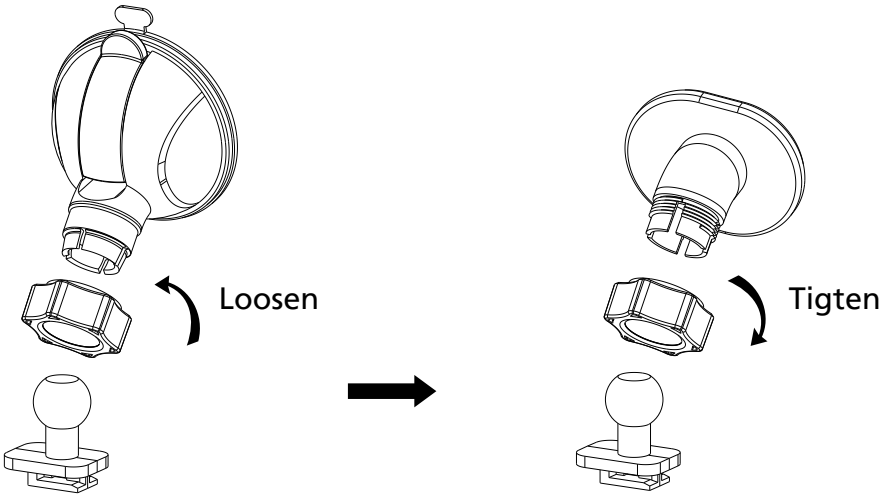
1.2 REPLACE THE SUCTION MOUNT WITH THE ADHESIVE MOUNT:



There are two types of mounts included in the package. One is a suction-cup and the other is an adhesive type. The suction mount makes it easier to attach and detach from the windshield while the adhesive mount provides more solid support for the camera.
The mounting bracket is already installed on the suction mount. If you prefer using the adhesive mount, please follow the guide below:

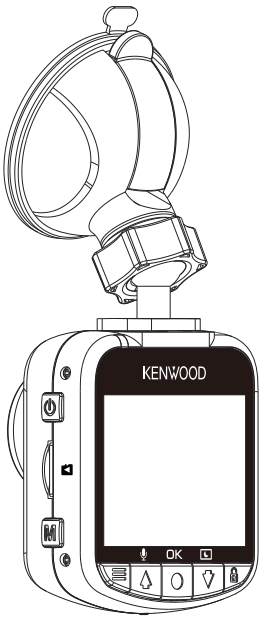
How to use the Adhesive Mount:

i. Loosen the **(c) locking ring** on the suction mount and pull the **(d) mounting bracket** out.
ii. Next, loosen the **(c) locking ring** from the adhesive mount, and plug the **(d) mounting bracket** into the adhesive mount.
iii. Clean the installation area on the windshield and peel off the plastic covering. Adhere it to the windshield.



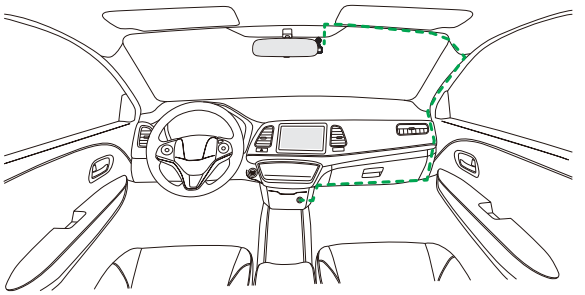
2. ATTACH THE MOUNT TO THE WINDSHIELD & START RECORDING

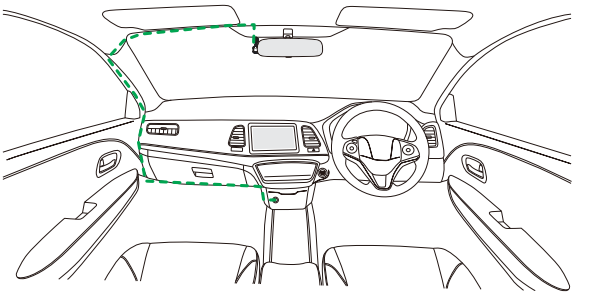
Remove the protective plastic film and select a position on the windshield where it won't distract you. Then, put the suction mount in place.
Release the **(b) locking lever** from the mount by pulling down on it. Hold the suction mount in place and press against the window. While holding it in place, pull the **(b) locking lever** back to lock the mount



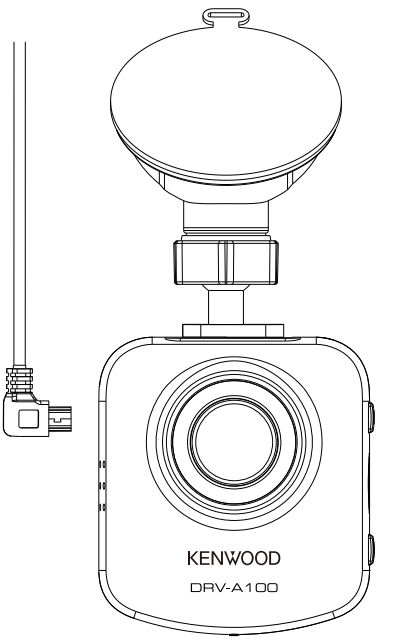
3. **ADJUST THE ANGLE**
   Loosen the **(c) locking ring** and adjust the device to the angle you want. When you find the perfect angle, remember to tighten the **(c) locking ring** again.

4. **CONNECTING TO CIGAR LIGHTER SOCKET**
   Connect the cigar lighter adapter cable that is in the package to your vehicle's 12 V outlet. The provided cable clips can help you keep the power cable neat.





Plug the cigar lighter adapter cable into the device.
This will allow the device to begin charging.



! Caution
Before performing the connection work, first check that the engine key is removed and then be sure to disconnect the negative terminal of the battery to prevent a short-circuit accident.

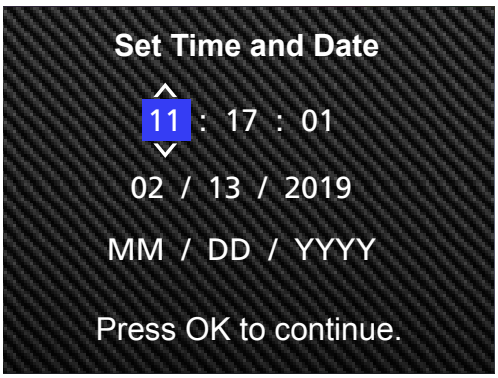
Initial Settings

THE FIRST-TIME SETUP

When connecting the power, the device will turn on and display the first-time setup guide below.

- Select the Language

- Set the Time and Date



TIP:

You can reset the settings either by operating inside of the SETUP MENU, or by restoring defaults.

From now on, the device will automatically turn on and start recording once power has been made available from the 12 V outlet. Just start the vehicle and start driving!

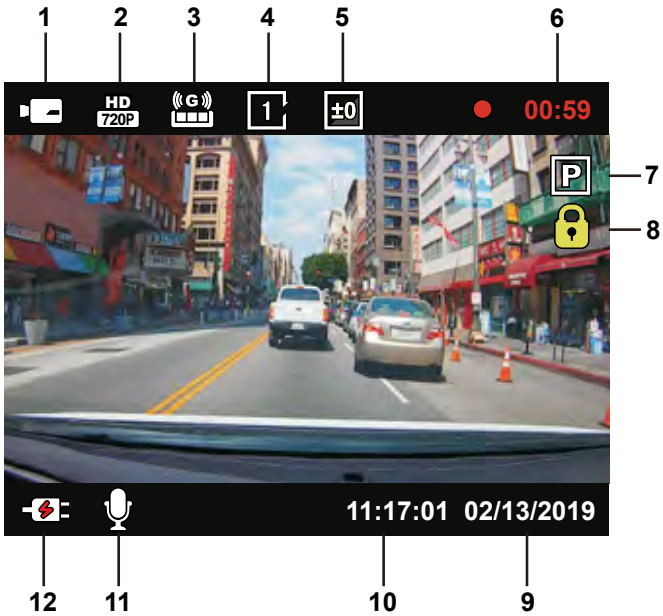
- If there is no 12 V outlet or cigar lighter socket for your vehicle, use the included USB power cord.
- DO NOT wire the device directly to the car cigar lighter socket or any 12 V outlet. Doing so will result in permanent damage to the device.
- The device has a hardwire kit CA-DR1030(optional accessory) that will directly connect to your vehicle's fuse box. This will allow you to have your 12 V outlet available for other use.

Please read carefully and follow the instructions below to help you operate the device safely.

Basic Operation

-Video Mode

The following information will help you better understand the icons in VIDEO MODE and their relative functions. Some icons show up only when corresponding functions are activated.



1. **Mode:** Indicates the device is in video mode.
2. **Resolution:** Displays the current resolution.
3. **G Sensor:** The current sensitivity level of G-Sensor.
4. **Video Length:** The duration of each video clip.
5. **Exposure:** Indicates the current exposure level settings.
6. **Recording Duration:** This will indicate the length of the current recording.
7. **Parking Mode Sensor:** Indicates the parking mode sensor is on.
8. **File Protection:** Indicates the current video clip is protected.
9. **Date:** Displays current date.
10. **Time:** Displays current time.
11. **Microphone:** When the audio recording function is off, there will be a red line across the icon.
12. **Power Status:** Indicates if the device is charging or not.

The device's default settings have been set for you to use the device without needing to change the settings.
If you need to make adjustments to the settings, the following instructions will help you.

-Video Menu

Access the VIDEO MENU by pressing the MENU button while in VIDEO MODE.

Use the **UP** and **DOWN** buttons to select setting options and press the **OK** button to enter the sub-menu.

Once you access the sub-menu, highlight the desired setting and press the **OK** button to confirm your selection and to return to the **VIDEO MENU**.

Press the **MENU** button twice to return to video mode.

TIP:

- You are not able to access the device menu while the camera is recording.

- **Resolution:** Choose the video resolution.
  OPTIONS: 720P 30fps
- **Video Length:** Set the length for each individual video clip. The video recorded by the device will be split and stored as individual video clips. The loop recording function will automatically overwrite the oldest and non-protected video clip when the memory card is full.
  OPTIONS: 1 Minute (default)/3 Minutes/5 Minutes
- **Exposure:** Adjust exposure levels settings.
  OPTIONS: +2/+1/ 0 (default)/-1/-2

- **Parking Mode Sensor**: Parking mode function will be available after turning on the parking mode sensor and connecting the hardwire kit CA-DR1030(optional accessory) to the permanent power.
  OPTION: On/Off (default)
  <Normal Mode to Parking Mode>
  If the device does not detect any vibration more than 5 minutes, it will turn off the device itself automatically and enter the parking mode.
  <Recording at Parking Mode>
  Once the device detects any vibration in the parking mode, it will turn on the device automatically and record the video for 30 seconds. In this duration, if the device detects any other vibration, it will extend recording for 30 seconds until there is no vibration at all and turn off the device back to the parking mode.
  <Parking Mode to Normal Mode>
  If the device detects the constant vibration more than 15 seconds, it will assume that the driver is driving the car and automatically switch from Parking Mode to Normal Mode.

- **G Sensor**: G sensor is the sensor that can detect forces. When it senses any forces, it will protect the current file automatically. Adjust the sensitivity of G sensor here.
  OPTIONS: High/Medium (default)/Low/Off

- **Screen Saver**: the device has a function to let the screen shut down after a period of inactivity. Press any button to re-activate the display.
  OPTIONS: Off (default)/30 Seconds/2 Minutes
  Note: When Parking Mode is activated, after 2 minutes of recording, LCD Display will automatically turn off. (Parking mode LCD display time setting: N/A)

- **KENWOOD Stamp**: Turn the KENWOOD logo stamp ON or OFF on the recorded files.
  OPTIONS: On (default)/Off

- **Time & Date Stamp**: Turn ON or OFF the date stamp mark on the recorded files.
  OPTIONS: On (default)/Off

- **License Plate Stamp**: Input your license plate number to put your license plate stamp on the recorded files.

NOTE: When you are in the **SETUP MENU -> Restore Defaults**, you will be able to restore all the settings to the device's default settings.

Basic Operation

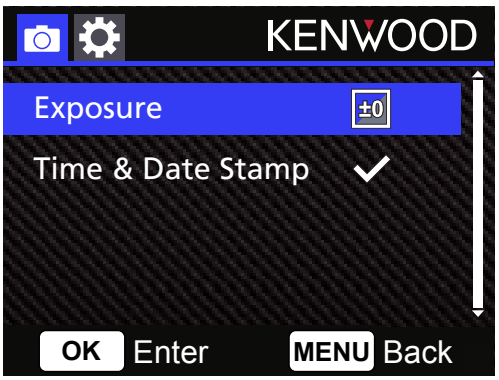
-Photo Mode

While in **VIDEO MODE**, press the **MODE** button to enter **PHOTO MODE**.
In **PHOTO MODE**, you are able to take stationary photos.
The following instructions will explain the icons in **PHOTO MODE**.
Some icons show up only when corresponding functions are activated.

1. **Mode**: Indicates when the device is in photo mode.
2. **Exposure**: Indicates the current exposure level settings.
3. **Date**: Displays current date.
4. **Time**: Displays current time.
5. **Charging Indicator**: Indicates if the device is charging or not.

-Photo Menu

Access the **PHOTO MENU** by pressing the **MENU** button while in **PHOTO MODE**.



Use the **UP** and **DOWN** buttons to select setting options and press the **OK** button to enter the sub-menu.
Press the **MENU** button twice to return to **PHOTO MODE**.

- **Exposure:** Adjust exposure levels settings.
  OPTIONS: +2/+1/ 0(default)/-1/-2

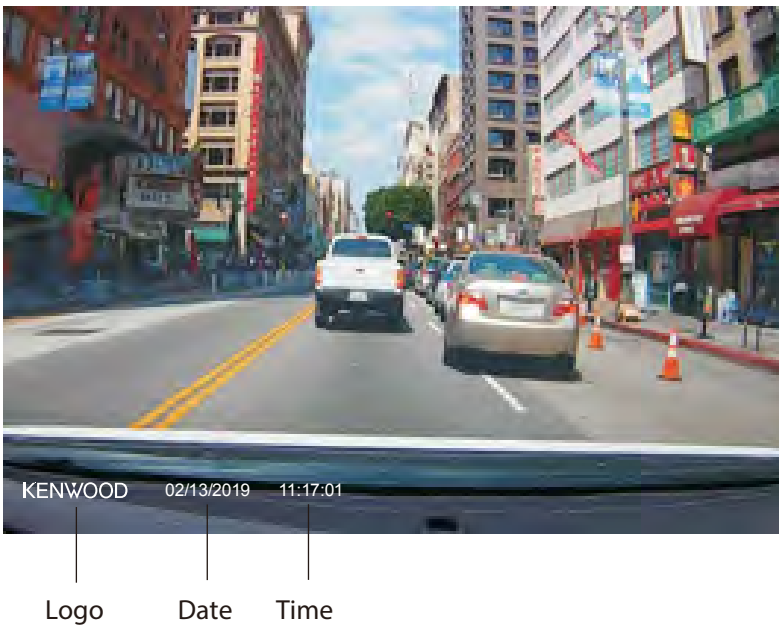
- **Time & Date Stamp:** Turn ON or OFF the date stamp mark on the photos.
  OPTIONS: On (default)/Off

NOTE: When you are in the SETUP MENU -> Restore Defaults, you will be able to restore all the settings to the device's default settings.

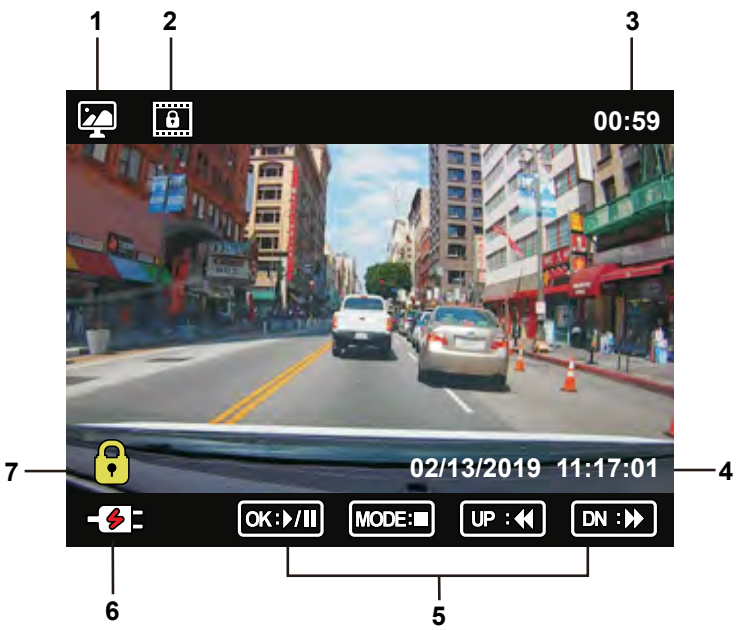
-Playback Mode

While in **PHOTO MODE**, press the **MODE** button to enter **PLAYBACK MODE**
In PLAYBACK MODE, you are able to review the videos and photos you have stored.

The following instructions will explain the icons in Video File.



KENWOOD Stamp: Logo, can be turned on/off in VIDEO MENU
Time & Date Stamp: Date, Time, can be turned on/off in VIDEO MENU



1. **Mode**: Indicates when the device is in PLAYBACK MODE.
2. **File Type**: Indicates the file type is protected.
3. **Playback Progress**: Displays the current playback time.
4. **Date & Time**: Indicates the date and time of the recorded file.
5. **Playback Controls**: Use the device buttons as instructed below.

OK: PLAY/PAUSE.

MENU: DELETE or PROTECT the video.

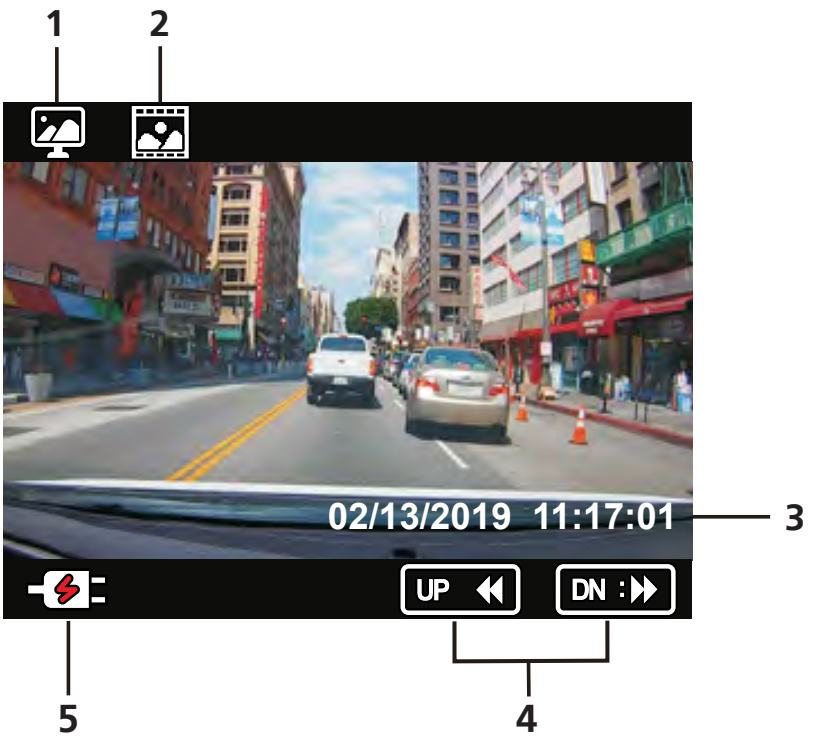
UP: Stop: Previous file Playing: FAST FORWARD.

DOWN: Stop: Next file Playing: REWIND.

MODE: STOP playing video and enter VIDEO MODE.

6. **Charging Indicator:** Indicates if the device is charging or not.
7. **Protected File:** Indicates the selected file is protected.

PHOTO FILES



1. **Mode:** Indicates when the device is in PLAYBACK MODE.
2. **File Type:** Indicates the file type is photo.
3. **Date & Time:** Indicates the date and time of the recorded file.
4. **Playback Controls:** Use the device buttons as instructed below.

UP: Previous file

DOWN: Next file

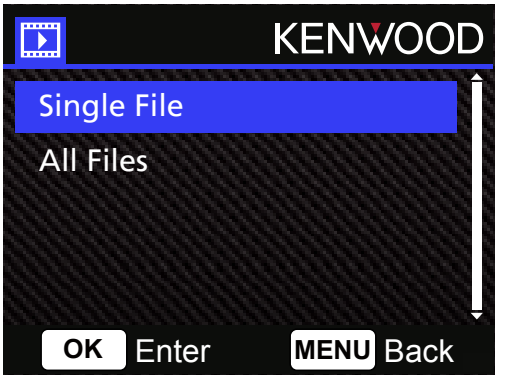
5. **Charging Indicator:** Indicates if the device is charging or not.

DELETING FILES

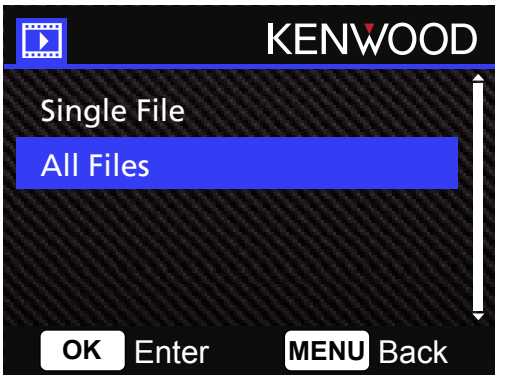
Highlight the **DELETE** option and press the **OK** button.

TIP: PROTECTED FILES CANNOT BE DELETED.

You will have the following options:



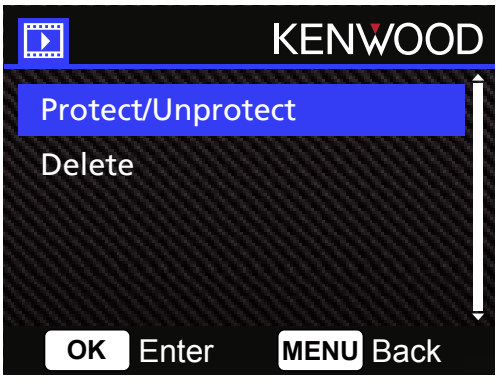
Once selected, follow the on-screen instructions to delete the current file.



Once selected, follow the on-screen instructions to delete All files.

PROTECTING/UNPROTECTING FILES

Highlight the **PROTECT/UNPROTECT** option and press the **OK** button.



You will have the following options:

Select **Protect File**, follow the on-screen instructions to protect the current file.

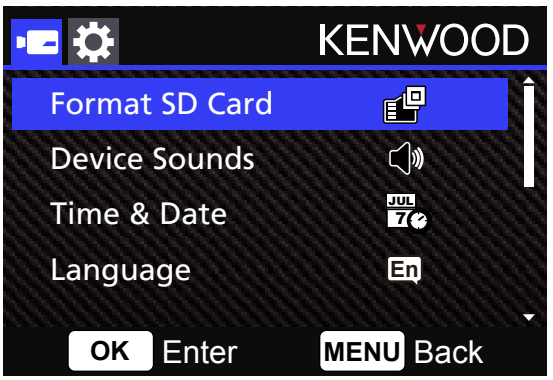
Select **Unprotect File**, follow the on-screen instructions to unprotect the current file.

To **Protect All Files**, select the option then follow the on-screen instructions to Protect All files in the current folder.

Select **Unprotect All Files**, follow the on-screen instructions to Unprotect All files in the current folder.

Settings

Access the SETUP MENU by pressing the MENU button twice.



Use the **UP** and **DOWN** buttons to select setting options and press the **OK** button to enter the sub-menu.
Once you access the sub-menu, highlight the desired setting and press the **OK** button to confirm your selection and to return to the **SETUP MENU**.
Press the **MENU** button to return to the current mode.

Note: The default settings have been selected for great image quality and ease of operation. Under most circumstances, you don't need to change the settings.

Note: The setup menu cannot be accessed while the camera is recording.

- **Format SD Card:** Format the memory card. Formatting will remove ALL the files in the card.
  OPTIONS: Yes/No
- **Device Sounds**: Adjust the button beep sound and voice recording.
  OPTIONS:
  Beep: On (default)/Off
  Audio Rec: On (default)/Off
- **Time & Date**: Adjust the TIME and DATE as required by using use the UP and DOWN buttons to set the value. Press the OK button to save the setting and press the MENU button to return to the SETUP MENU.

- **Language:** Select a preferred language.
  OPTIONS: English (default)/Deutsche/Français/Nederlands/Italiano/Español/
  Português/Русский/Polska/Česky/Română
- **Image Reversal:**
  Rotate the video image and the screen 180 degrees.
  OPTIONS: On/Off(default)
- **Restore Defaults:** Reset all the settings to the factory default.
- **System Info:** Displays the firmware version and card info.
  OPTIONS:
  System Info: Displays the firmware version.
  Card Info: Displays the memory card information.

Connection with Computer

When you use the provided USB cable to connect the device to your computer, the LCD screen will show two available options.

- **USB Storage**
- **Dash Cam**

Use the UP and DOWN buttons to select the necessary function, and press the OK button to continue.

USB STORAGE

When you have connected the device to the computer, the device will operate as a card reader. Your computer will have a pop up of a new drive for you to browse all the video and photo files.

Note: The device is a "Read Only" device. If you want to copy/delete/edit the files, remove the SD card and use another card reader to connect your computer.
Remember to always turn off the device before disconnecting it from your computer.

DASH CAM

When you choose this option, the device will turn on and work normally while the device is being charged.

Note: Remember to always turn off the device before disconnecting it from your computer.

Using the Desktop Software

"KENWOOD VIDEO PLAYER" is a desktop software for displaying video recorded with the device.

System Requirements for "KENWOOD VIDEO PLAYER"

OS: Microsoft Windows 10, Windows 8.1, Windows 7*
(except for the Windows 10 Mobile, Windows RT)
*Windows 7 Service Pack 1 must be installed.
*Microsoft Visual C++ must be installed.
*DirectX XAudio2 must be installed(Windows 7 and older version).
OS: Apple Mac OS X 10.11 (El Capitan) or later
Microsoft, Windows, and DirectX are registered trademark or trademark of Microsoft Corporation in the US and other countries.
Macintosh, Mac are trademarks of Apple Inc., registered in the U.S. and other countries.

Installing the Software

Install the software in a computer environment in which you have administrator's rights.
1. Download the installer from https://www.kenwood.com/cs/ce/
2. Install according to the on-screen instructions.

Playback:

1. **Video time line :**
   Drag the Video time line bar to Rewind or Forward to cue Video, Speed and G-Sensor date.

2. **Video play control buttons :**
   Available options from left to right are stop, last clip, last frame, play, next frame next clip.
   Available hot keys for individual options are
   (1) Play / Pause: space
   (2) Stop: esc
   (3) Last frame: left
   (4) Next frame: right
   (5) Next clip: N
   (6) Last clip: B

3. **Full screen display :**
   Toggle to fit the image to the entire screen.
   - Hot key: Alt + Enter

4. **Video volume adjustment :**
   Drag this to change the audio volume.
   - Default volume: 100%

5. **Digital zoom in / out :**
   Roll the mouse wheel forward/backward on the video area or drag this to change the zoom in/out.

6. **Video play speed :**
   Click to speed up / down videos on the main screen.
   Available speed options may range from one quater to quadruple to original one.
   -Default speed : 1X

7. **Share Button :**
   Click to open different sharing options.

8. **Video edit mode :**
   Click to open the video edit function window.

9. **Screen shot :**
   Click to capture the current image displayed on the main screen and save the file in a given space.
   -Default location : installation root directory /Snapshot.

10. **Speed :**
    Display the speed of the car in the video when it was recorded. You may change the UOM of speed under Setup → Speed Unit.
    (Function available on the device with built-in GPS)
    -Unit of measure (UOM) option : Imperial Unit or Metric Unit
    -Default unit of measure : MPH

11. **G-sensor data :**
    Display the G-data of the vehicle in the video when it was recorded.
    (Function not available on DRV-A100)

12. **Chart of G-sensor data :**
    Display the G-data of the vehicle in the video when it was recorded.
    (Function not available on DRV-A100)

13. **Video shot on :**
    Display date and time of the video when it was recorded.
    (Function not available on DRV-A100)

14. **Latitude :**
    Display the latitude of the video where it was recorded.
    (Function available on the device with built-in GPS)

15. **Longitude :**
    Display the longitude of the video where it was recorded.
    (Function available on the device with built-in GPS)

16. **Driving direction :**
    Display the direction of the video where it was recorded.
    (Function available on the device with built-in GPS)

17. **Average Speed :**
    Display the average speed of the video where it was recorded.
    (Function available on the device with built-in GPS)

18. **Max Speed :**
    Display the max speed of the video where it was recorded.
    (Function available on the device with built-in GPS)

19. **Google Maps :**
    Display the location of the video where it was recorded.
    (Function available on the device with built-in GPS)

20. **Add the file / Remove the file :**
    Click the "Add" key to display the "add file" window. Click the "Remove" key to erase the selected files from the play list.

21. **File group / File ungroup :**
    You may group multiple files into the playlist then play them in one file and link the data of each file to display in data table. For example, adding 5 1-minute length files into one group will end up with a 5 minutes display time shown in the data table. The name of a group is a string of the name of the first file suffixed with the number of files in the group. That is, for a group of 5 files with the first name "20180925_191823", the name of the group is "20180925_191823(5)".

22. **Video playlist :**
    A video thumbnail will show in this table after the videos added in the list.

How to Edit the Video:

1. Edit the timeline of the video by moving the white block on the timeline to set up the edit scope of video.
2. Edit scope of the video. You may input a number to change the size of this scope.
3. Confirm and click to validate the current work and proceed with the next step.
4. Click to exit the video edit mode.
5. The software system bar and video playlist stop functioning in video edit mode.

1. **Remove audio file:**
   Check to remove the audio file of the exported video.
2. **Remove the GPS and G-sensor data:**
   Check to remove the GPS and G-sensor file of the exported video.
3. **Image export:**
   Select the target storage location of the image file and its name.
   Default location: installation root directory / Edit video

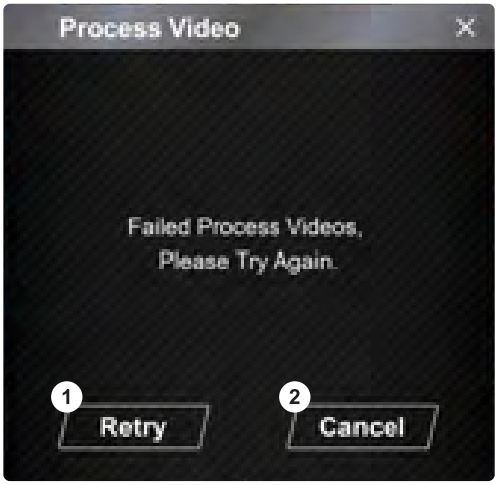
1. **Image processing:**
   Proceed with image processing once the image export options are setup.

2. **Export status (1):**
   The image file export progress is presented as a percentage symbol "%" and is synced with item 3.

3. **Export status (2):**
   The image file export progress is presented by a frame being filled with layered colors ink and synced with item 2. The export is finished once the frame is fully inked in layered colors.

1. **OK:**
   Click to go back to the play mode page.

2. **Open folder:**
   Click to open folders with image files saved in there.



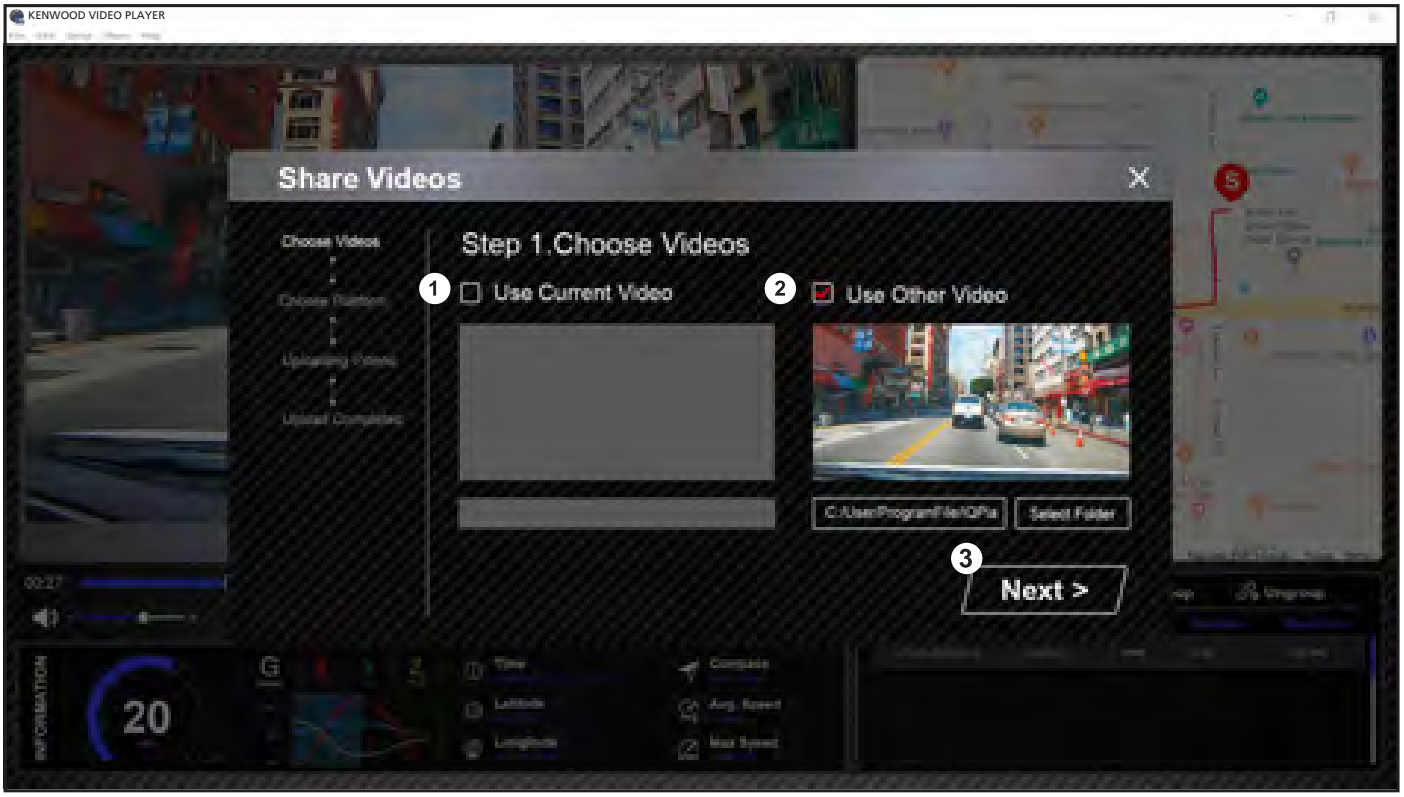
1. **Retry:**
   Click to export the image file again with the previous settings.

2. **Cancel:**
   Click to abort image file export and go back to the video edit page.

1. **Yes:**
   Click to go back to the play mode page.

2. **No:**
   Click to abort image file export and go back to the video edit page.

-Share Mode

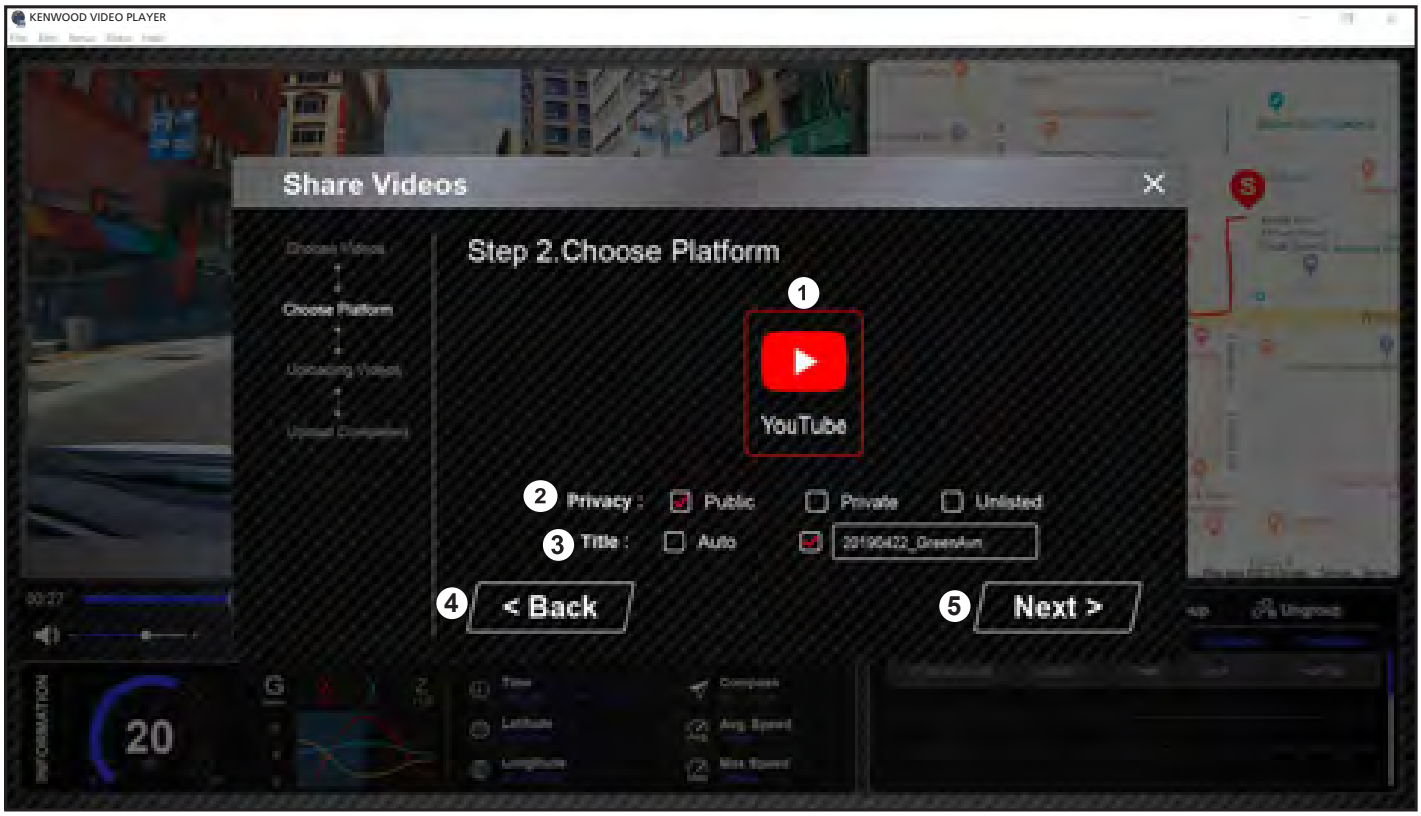


Click Share → Share Videos in the software system bar at the top of the window or the community sharing icon in the interface to display the sharing window.

1. **To share the current video:**
   When two files are playing, the one with the active speaker icon will be shared.

2. **To share the non-current video:**
   Click and open the file selection window.

3. **Next step:**
   Click to go to the next step.



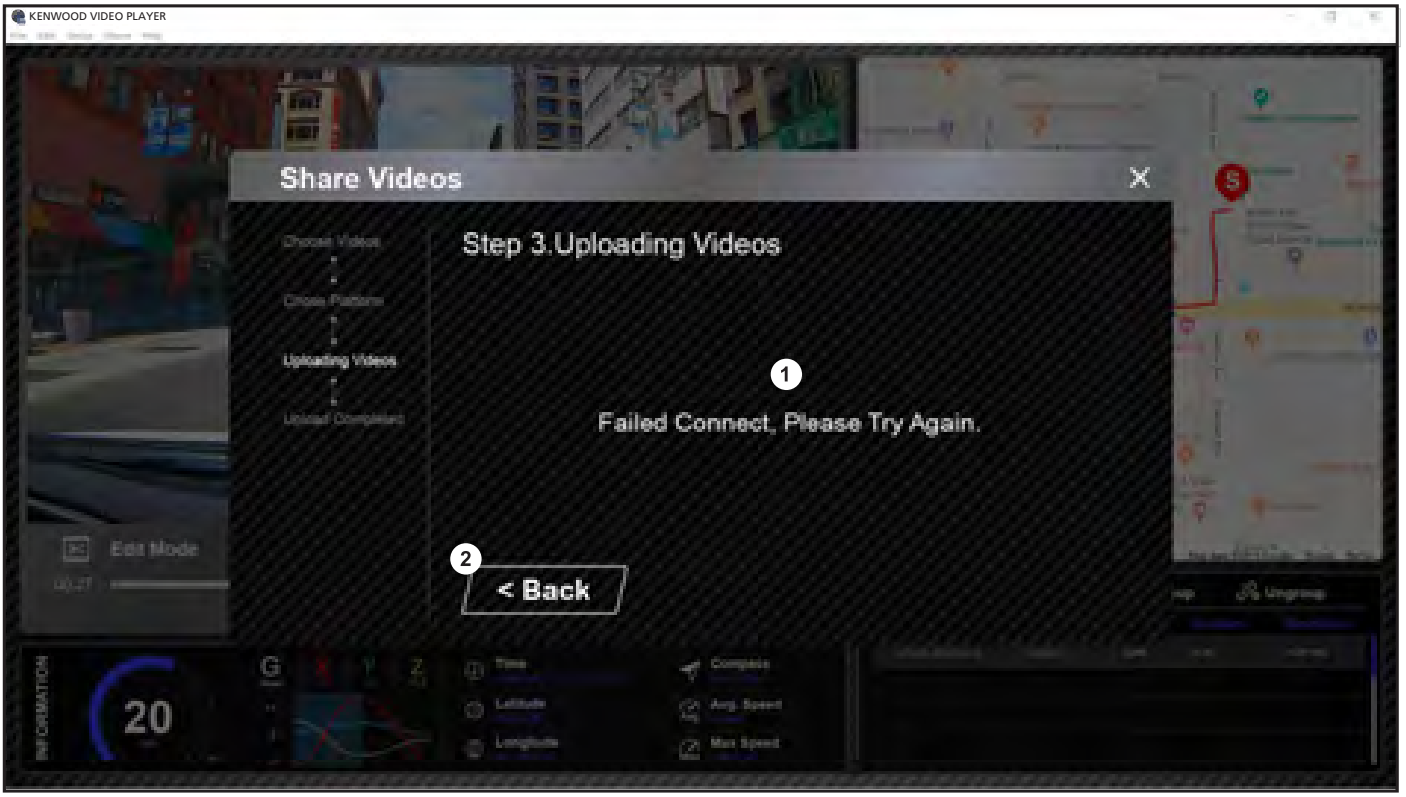
1. **Select a community platform:**
   You can select just one community platform and the one being selected will be circled in layered colors.

2. **Select the privacy mode:**
   You can select the privacy mode of Public, Private, and Unlisted when you upload the video.

3. **Upload title:**
   The title item will define the name of the video when you upload the video, you can select the Auto: “DD/MM/YYYY (default) – Dash Cam – KENWOOD VIDEO PLAYER” or define the title by yourselves.

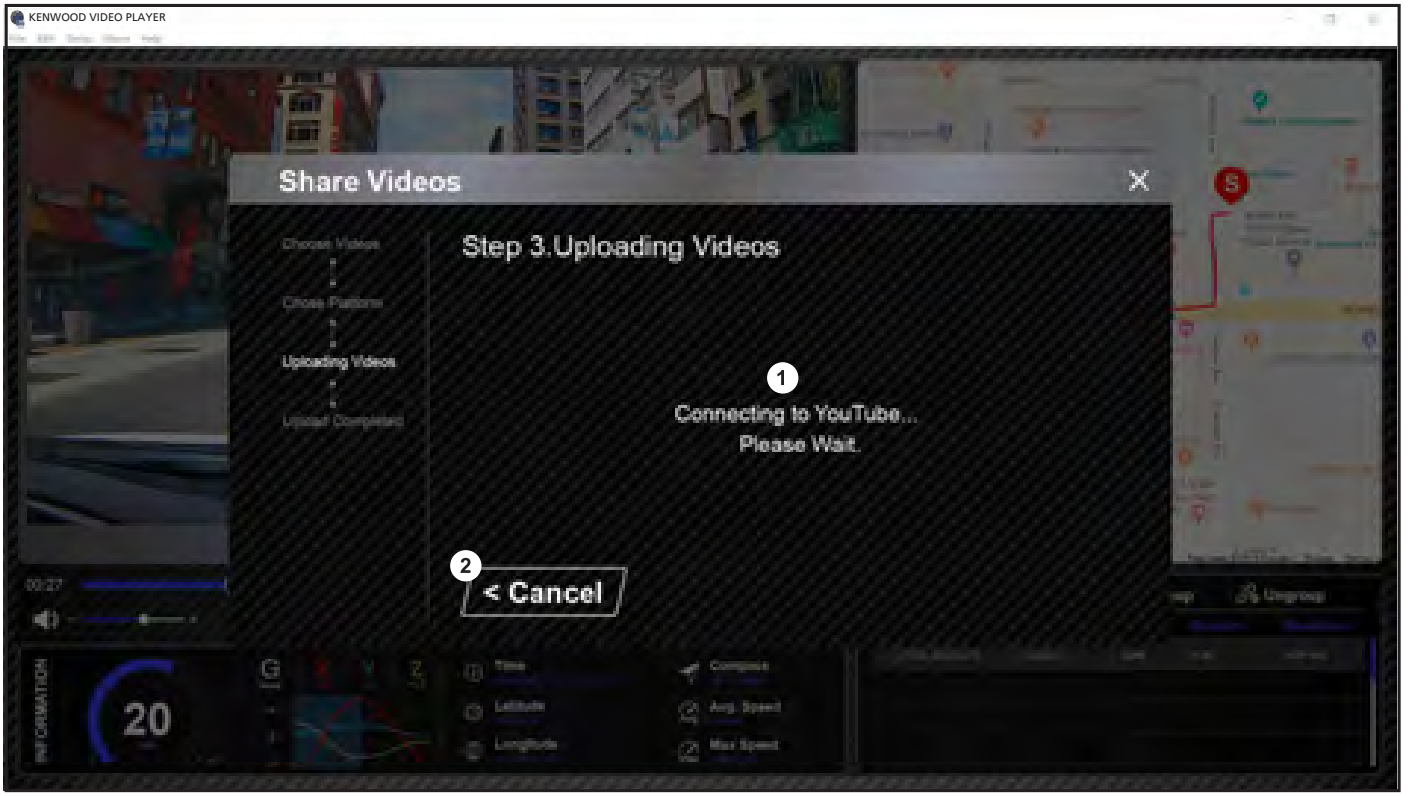
4. **Last step:**
   Click to go back to the last step.

5. **Next step:**
   Click to go to the next step.



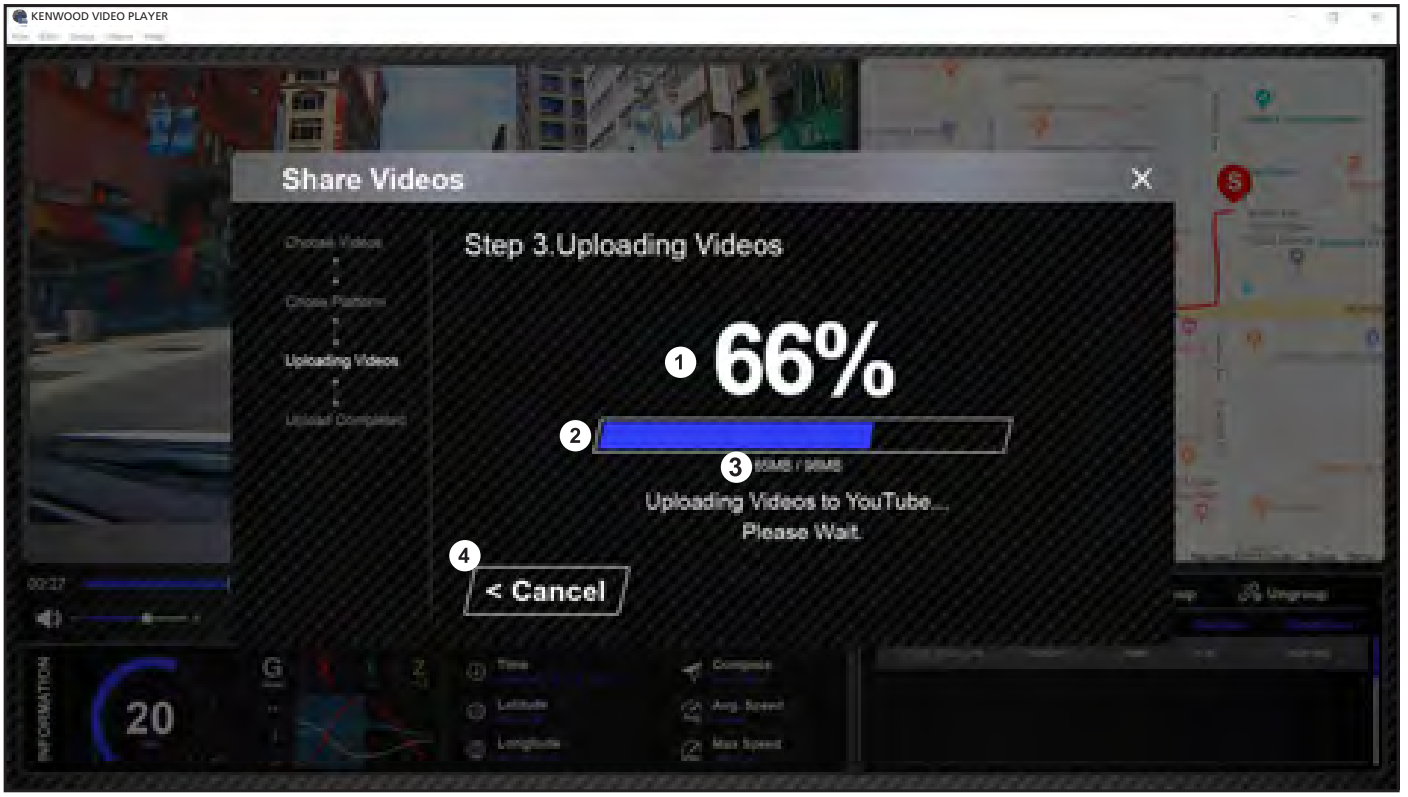
1. **File upload failure:**
   This page displays if an upload failed or there is a server connection timeout.

2. **Last step:**
   Click to go back to the last step.



1. **Connect to community platform:**
   The message "Connecting to Social Media…… Please Wait." displays when a connection is being initiated. Your default browser will display and connect to the selected community platform. You are required to bundle your account ID with the platform for connection the first time only (no longer needed once bundled).

2. **Cancel:**
   Click to go back to the last step.

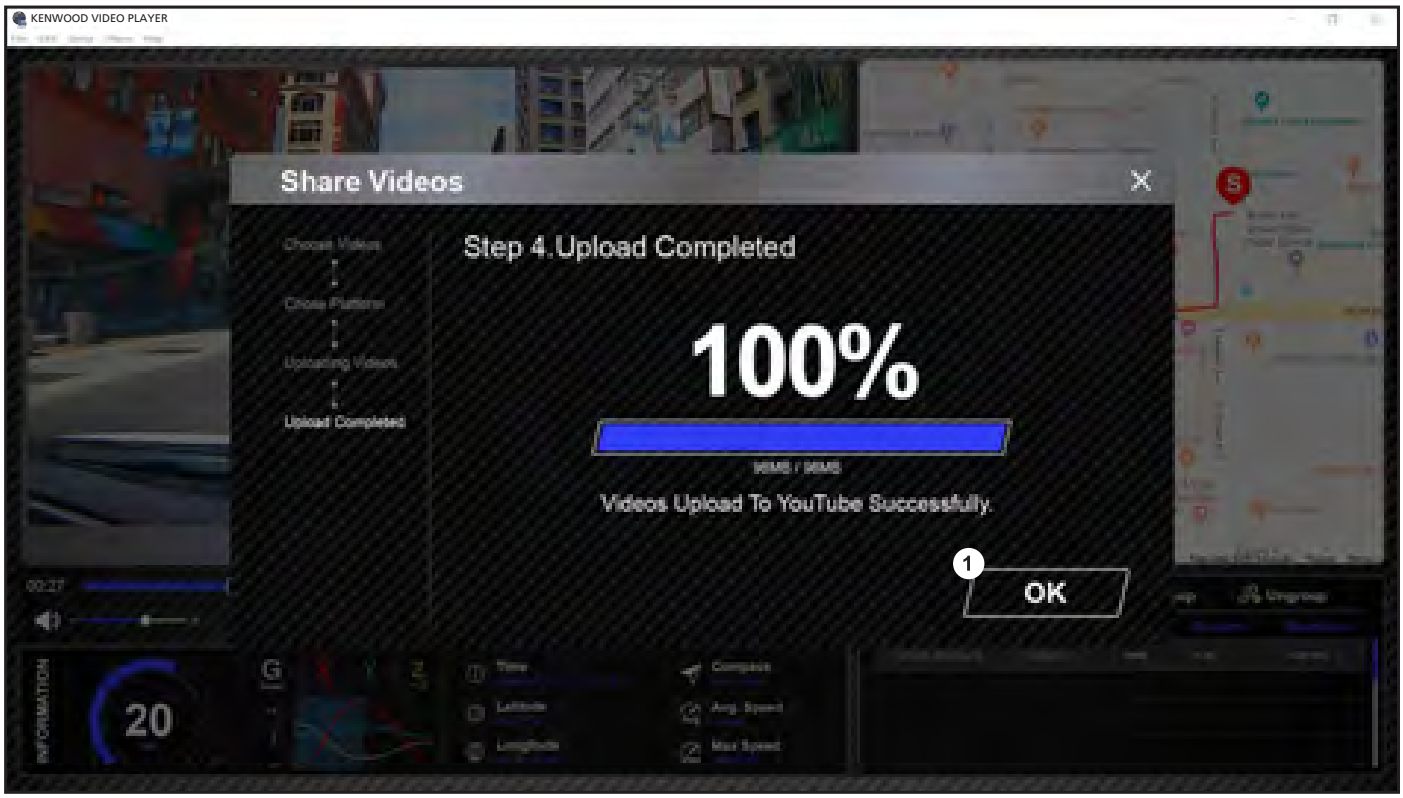


1. **Upload status (1):**
   The file upload progress is presented as a percentage symbol "%" and synced with item 2.

2. **Upload status (2):**
   The file upload progress is presented by a frame being filled with layered colors ink and synced with item 1. The file is uploaded successfully once the frame is fully inked in layered colors.

3. **Upload progress:**
   The former number is the MB uploaded and the latter is the total for the upload.

4. **Cancel:**
   Click to go back to the last step.



1. **Confirm:**
   Click to go back to play mode information.

Troubleshooting

Blurred Image (Video)	The device comes with a protective lens cover for the camera lens, be sure to remove it. Wipe the lens with a soft cloth until any debris/stains are removed. Clean your vehicles windshield where the camera is placed.
Unable to insert SD card	Make sure the metal portion of the memory card faces the screen side. Once inserted, push the card until a CLICK sound is heard.
SD card does not release from the devices	The device releases the SD Card by pressing the SD card forward. By applying the pressure on the SD card, a small click sound will be made. If you are unable to remove the SD card, use the edge of a small coin to push forward until the click sound is made.
Video files can not be played	The device video files are recorded in .avi format. These files may not be played on your computer if you do not have a suitable video player installed.
Video files jump when they are being played	The memory card that the device recommends for best quality is the Class 10 SD Card. If your computer does not recognize the video files, try another computer to view the recorded video. Copy the video file on to the computer and allow for the computer video player rather than the device Playback feature.
The photos come out blurry	Be sure to hold the device still while you take your photo. Reminder: The photo is not taken unless you have heard the shutter click. Also make sure the protective lens cover is removed and the lenses are clean.
The total video recording time is only a few minutes long	You may have a small amount of available space left for your SD card. Back up all the files you need from the SD card. Only AFTER you back up all the files you need, format the SD card with the device.
I cannot save my video files to my computer through the USB storage feature	The functions have been optimized to work properly with both Windows and Mac computers. Please reboot your computers. Make sure the device is connected properly.
The suction cup does not attach to the surface	Be sure the protective film on the suction cup has been removed. Before you place it, make sure the surface is clean and smooth. Wipe down the surface and add a small amount of moisture to the suction cup to allow for a stronger bond. Do not apply on a non-smooth surface or an area with paint.

The device shuts down on its own	Auto power off function will turn off the device automatically after it loses its power supply. Make sure the device is connected properly to the car power cable.
The device does not charge in my car	If your cigar lighter adapter cable is not working properly with your device, check your car's power fuses. Also check your power cord and replace it if there is an issue.
SD Card is not letting me view my files	Try some different card readers and computers to see if any of them can view the files. If none of them work, the files are probably damaged. Use the device to format the memory card.(WARNING: formatting the memory card will remove all the files saved), We recommend the branded memory cards with Class 10. Note: You must format the SD card with the device for first time use.
I cannot delete the file on the device	Be sure the file you are trying to delete is unprotected. If the file is protected, please follow the instruction on page 23 to unprotect the file first, and then delete the file.
My screen turns off after I just turned it on	The screen saver function turns off the screen after a period of inactivity. If you want to turn off this function, go to SETUP menu -> Screen Saver, and turn it off.
The message "Please Format SD Card" appears on my screen	The device requires formatting the SD card if the card is used on the device for the first time. Please format the SD card in the SETUP menu.
The device does not charge	Be sure the power cord is connected properly. When the device is being charged, the blue LED indicator will illuminate.
A "Card Error" message appears on my device	This indicates that the SD card is not properly formatted to your device. Please remove the files you would like to keep on to your computer, and perform a "Format SD Card" procedure to allow your memory card to function properly with the device.
A "Card Full" message appears on my device	When this message appears, your SD card is at full capacity. Reminder: When you have protected files, you limit the use of your memory card. Delete unnecessary files to allow maximum use of your memory card.
The device always turn on by itself.	The parking mode function will automatically start recording a 30 second video clip and turn off when external forces are detected. If you want to turn off this function, go to SETUP menu -> Parking Mode Sensor, and turn it off.

I press the MENU button but nothing happens	Reminder: The device will not let you access the menu while it is recording. To access the menu, stop recording and the MENU feature will be accessible.
When I download files from the KENWOOD website a malicious software message appears	If this message appears, simply adjust your browser settings and allow for the download to proceed. Once complete, reset your browser security to protect your computer.
Unresolved Issues	If you continue to have problems with your device, please reset your device to default settings in the setup menu and begin the process over again. If these problems remain, Please contact your store of purchase or a service center.

Appendix

About the monitor screen

- Do not subject the screen section to strong shocks. Doing so could damage the screen.
- Do not let direct sunlight shine on the screen. Leaving the screen with direct sunlight shining on it for long periods of time will increase the temperature and could damage the screen.
- Extremely high or low temperatures could cause the display to operate slowly or darken, or result in residual images. This is due to the properties of liquid crystal displays and is not a malfunction. Normal operation will return once the temperature in the car returns to normal.
- There may be small dots on the screen. This is a phenomenon typical of liquid crystal displays and is not a malfunction.
- Due to the properties of liquid crystal displays, the display may be hard to see depending on the angle at which it is viewed, but this is not a malfunction.

About SD Cards

- Cards supported by this device

Standard	microSDHC
Capacity	8 GB to 32 GB
Speed Class	Class 10
File System	FAT32

- Up to the Class 10 speed class is supported.

Precaution for using SD cards

- When using a commercially available SD card, also check the instructions supplied with the SD card.
- Be sure to format (initialize) an SD card with the device before use.
- SD cards have a product lifespan, such as the number of times that writing can be performed. It is recommended to replace the SD card with a new one regularly depending on the usage conditions.
- When inserting and removing an SD card, confirm the orientation, do not bend it, and do not apply a strong force or impact to it.
- Do not directly touch the contact part with a hand or metal. The stored data may be damaged or lost due to static electricity.
- Be sure to back up (copy) the required files in the SD card to a computer or other device. The saved data may be lost due to the usage conditions of the SD card. Please note that JVCKENWOOD cannot compensate for any damages arising from the loss of saved files.

Requests Regarding Disposal or Transferring Ownership of an SD Card

Using the SD card format and deletion functions of this device or formating with a function of a computer just changes the file management information and does not completely delete the data in a SD card. We recommend either physically destroying the actual SD card or using commercially available PC data deletion software or the like to completely delete the data in the SD card before disposal or transfer of ownership. Manage the data in SD cards at your own responsibility.

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- **FFmpeg**
  This software uses libraries from the FFmpeg project (http://ffmpeg.org/) under the LGPLv2.1 License: GUN Lesser General Public License (LGPL) version 2.1

- **NSIS**
  This software's installer is made using NSIS (http://nsis.sourceforge.net) which is licensed under zlib/libpng license.

Specifications

Model Number / Name	DRV-A100 / Dashboard Camera
Power Requirements	5V / 2A; 12-24V DC
Power Supply (Car power cable)	Input: 12-24V DC Output: 5V DC Fuse Type: 32mm/2A
Current Consumption	280mA
Sensor Resolution	1.0M Pixel
Lens Type/Angle/Aperture	4G / 125° / F2.4
Recording Resolution	HD 1280 x 720 @ 30fps
Screen Size	2”
Screen Resolution	960 (W) X 240 (H) pixels x RGB
Screen Ratio	4:3
Card Reader	microSDHC, up to 32GB
SD Card (Recommended Type)	microSDHC card 8GB to 32GB supported, Class 10 recommended for best results use a recognized brand
SD Card Recorded File Capacity (based on default settings)	8GB microSD = 45 mins (1 minute x 45 recordings) 16GB microSD = 90 mins (1 minute x 90 recordings) 32GB microSD = 180 mins (1 minute x 180 recordings)
Recording Format	MJPEG(AVI)
Unit Dimensions	2-1/8” x 2-1/4” x 1-7/16” / 54mm x 58mm x 37mm
Unit Weight	1.6oz / 46g

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